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ABSTRACT

A method for automatically generating front-end code and back-end code that are both compatible with a specification, such as the JDWP communication protocol. First, a detailed
5 protocol specification is written that contains a description of a communication protocol between the front-end code and the back-end code. The detailed specification is then input into a code generator that parses the specification. The front-end code is then automatically generated from the formal specification, and may be written in a first computer language such as the JavaTM programming language. The code generator then generates the back-end code,
10 which may be written in a second computer language such as C.